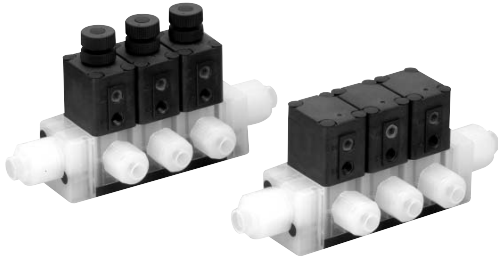


Series LVC Manifolds



Manifold Specifications

| Model | LLC2A | LLC3A | LLC4A | LLC5A |
|----------------------|--------------------------|-------|-------|-------|
| Manifold type | Stacking type | | | |
| P (IN), A (OUT) type | Common IN/Individual OUT | | | |
| Valve stations | 2 to 5 stations | | | |
| Tubing size (port P) | 3/8 | 1/2 | 3/4 | 3/4 |
| Tubing size (port A) | 1/4 | 3/8 | 1/2 | 3/4 |

Note 1) Contact SMC if the manifold will be used with vacuum and A → P flow.

How to Order Manifold Base

LLC 2 A - 02 - S 11

Body class

| Symbol | Body class |
|--------|------------|
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |

Base type

| A | Stacking type |
|---|---------------|
| A | Stacking type |

Manifold stations

| 02 | 2 stations |
|----|------------|
| ⋮ | ⋮ |
| 05 | 5 stations |

Tubing size for P port and L side connection

| Symbol | Tubing size | Body class |
|--------|-------------|------------|
| 00 | Plug | 2 to 5 |
| 06 | Ø6 | 2 |
| 07 | 1/4" | |
| 08 | Ø8 | |
| 10 | Ø10 | |
| 11 | 3/8" | 3 |
| 10 | Ø10 | |
| 11 | 3/8" | |
| 12 | Ø12 | 4 |
| 13 | 1/2" | |
| 12 | Ø12 | |
| 13 | 1/2" | 5 |
| 19 | Ø19, 3/4" | |
| 12 | Ø12 | |
| 13 | 1/2" | 5 |
| 19 | Ø19, 3/4" | |

Tubing size for P port and R side connection

| Symbol | Tubing size | Body class |
|--------|-------------|------------|
| 00 | Plug | 2 to 5 |
| 06 | Ø6 | 2 |
| 07 | 1/4" | |
| 08 | Ø8 | |
| 10 | Ø10 | |
| 11 | 3/8" | 3 |
| 10 | Ø10 | |
| 11 | 3/8" | |
| 12 | Ø12 | 4 |
| 13 | 1/2" | |
| 12 | Ø12 | |
| 13 | 1/2" | 5 |
| 19 | Ø19, 3/4" | |
| 12 | Ø12 | |
| 13 | 1/2" | 5 |
| 19 | Ø19, 3/4" | |

How to Order Valve

LVC 2 0 A - S07

Body class

| Symbol | Body class | Orifice dia. |
|--------|------------|--------------|
| 2 | 2 | Ø4 |
| 3 | 3 | Ø8 |
| 4 | 4 | Ø10 |
| 5 | 5 | Ø16 |

Valve type

| 0 | N.C. |
|---|---------------|
| 1 | N.O. |
| 2 | Double acting |

Body type

| A | Stacking type for manifold |
|---|----------------------------|
| A | Stacking type for manifold |

Tubing size

| Symbol | Tubing size | Body class |
|--------|-------------|------------|
| S03 | 1/8" | 2 |
| S04 | Ø4 | |
| S05 | 3/16" | |
| S06 | Ø6 | |
| S07 | 1/4" | 3 |
| S06 | Ø6 | |
| S07 | 1/4" | |
| S08 | Ø8 | |
| S10 | Ø10 | 4 |
| S11 | 3/8" | |
| S12 | Ø12 | |
| S13 | 1/2" | 5 |
| S12 | Ø12 | |
| S13 | 1/2" | |
| S19 | Ø19, 3/4" | 5 |

Option

| Nil | None |
|-----|---------------------------|
| 1 | With flow rate adjustment |
| 4 | With indicator |

Note) Options can not be combined each other.

Material

| Symbol | Body | Actuator section End plate | Dia-phragm | Applicable option | | Note |
|--------|------|----------------------------|------------|-------------------|---|--|
| | | | | 1 | 4 | |
| Nil | PFA | PPS | PTFE | ● | ● | — |
| F | PFA | PVDF | PTFE | | | Hydrofluoric acid compatible (Only LVC40, 50 type) |
| N | PFA | PPS | PTFE | ● | ● | Ammonium hydroxide compatible |

Pilot port thread type

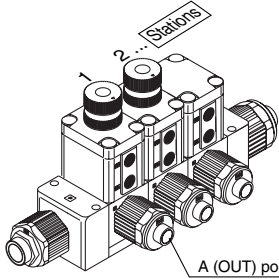
| Symbol | Body class | Thread type |
|--------|------------|-------------|
| Nil | 2 | M5 |
| | 3/4/5 | Rc 1/8 |
| N | 3/4/5 | NP T1/8 |

VC
VDW
VQ
VX2
VX
VX3
VXA
VN
LVC
LVA
LVH
LVD
LVQ
LQ
LVN
TI/
TIL
PA
PAX
PB

Series LVC

How to Order Manifold Assembly (Example)

Enter the part number of the valves to be mounted together with the manifold base part number.



Stations are counted from station 1 on the left side, with the A (OUT) ports in front.

<Example>

LLC2A-03-S11 1set 1 set Manifold base part no.
 * LVC20A-S07-1 2 sets 2 sets Valve part no. (stations 1 & 2)
 * LVC20A-S07 1 set 1 set Valve part no. (station 3)

• Add the * symbol at the beginning of part numbers for valves, etc. to be mounted.

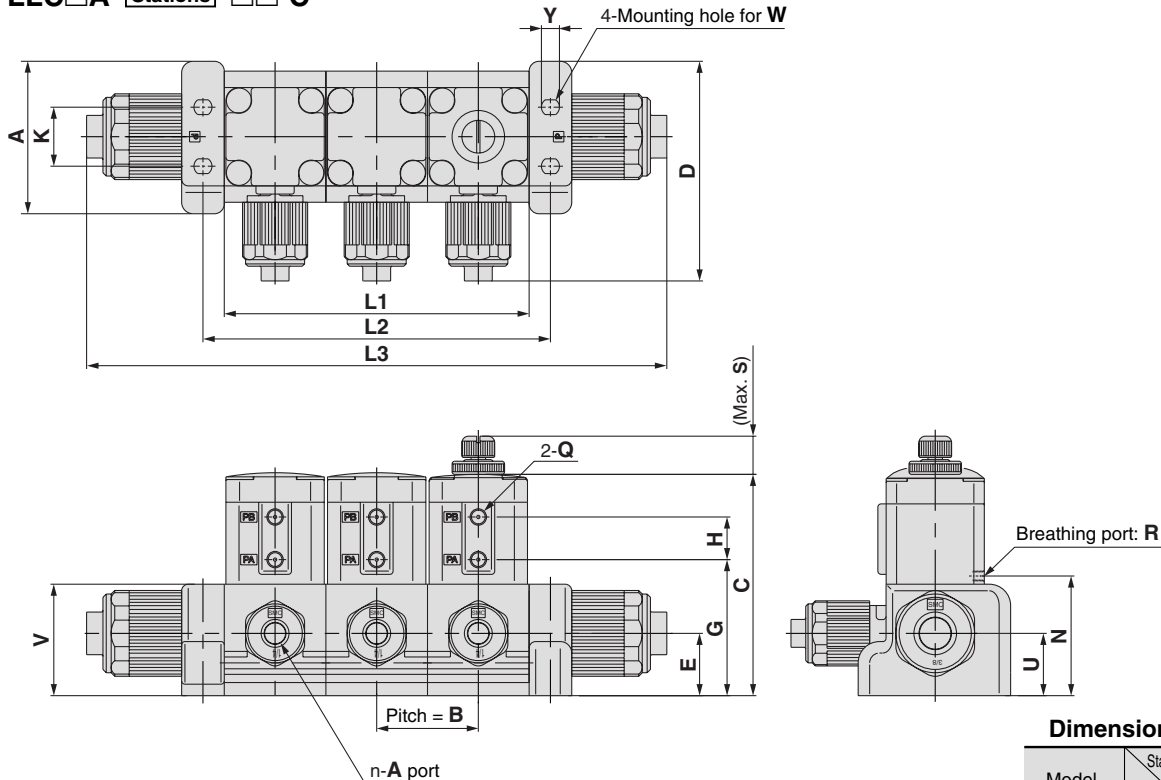
Enter together in order counting from station 1 on the left side, with the A (OUT) ports in front.

Manifold variations

| | | Model | LVC20A | LVC30A | LVC40A | LVC50A |
|---------------------------|--------|-------------------|--------|--------|--------|--------|
| | | Manifold material | PFA | | | |
| | | Tubing size | 1/4 | 3/8 | 1/2 | 3/4 |
| | | Orifice diameter | Ø4 | Ø8 | Ø10 | Ø16 |
| Type | Symbol | Valve type | | | | |
| Basic type | | N.C. | ○ | ○ | ○ | ○ |
| | | N.O. | ○ | ○ | ○ | ○ |
| | | Double acting | ○ | ○ | ○ | ○ |
| With flow rate adjustment | | N.C. | ○ | ○ | ○ | ○ |
| | | Double acting | ○ | ○ | ○ | ○ |

Dimensions

LLC□A- Stations -□□-C



Dimensions (mm)

Dimensions

| Model | A | B | C | D | E | G | H | K | N | Q | R | S | U | V | W | Y |
|-------|------|------|-------|-----|------|------|------|----|------|-------------------|-------------------|------|------|------|----|-----|
| LLC2A | 46.5 | 31 | 67.5 | 67 | 19 | 41.5 | 13 | 18 | 36.5 | M5 x 0.8 | M3 x 0.5 | 11.5 | 19 | 34 | M4 | 5.5 |
| LLC3A | 47 | 36.5 | 93.5 | 76 | 27.5 | 57.5 | 17.5 | 39 | 53.5 | Rc 1/8 NPT 1/8 | Rc 1/8 NPT 1/8 | 24 | 27.5 | 47 | M5 | 6.5 |
| LLC4A | 60 | 47 | 111.5 | 95 | 33.5 | 70.5 | 18 | 50 | 63.5 | | | 29 | 33.5 | 56 | M6 | 7.5 |
| LLC5A | 75 | 59 | 131 | 114 | 33.5 | 70 | 27.5 | 62 | 64 | | | 34.5 | 27.5 | 56.5 | M6 | 7.5 |

| Model | Station Symbol | 2 | 3 | 4 | 5 |
|-------|----------------|-----|-------|-----|-------|
| LLC2A | L1 | 62 | 93 | 124 | 155 |
| | L2 | 75 | 106 | 137 | 168 |
| | L3 | 146 | 177 | 208 | 239 |
| LLC3A | L1 | 73 | 109.5 | 146 | 182.5 |
| | L2 | 84 | 120.5 | 157 | 193.5 |
| | L3 | 183 | 219.5 | 256 | 292.5 |
| LLC4A | L1 | 94 | 141 | 188 | 235 |
| | L2 | 109 | 156 | 203 | 250 |
| | L3 | 219 | 266 | 313 | 360 |
| LLC5A | L1 | 118 | 177 | 236 | 295 |
| | L2 | 130 | 189 | 248 | 307 |
| | L3 | 240 | 299 | 358 | 417 |